Prizm™

manufactured by

White's Electronics, Inc.
1011 Pleasant Valley Road
Sweet Home, OR 97386
USA

Visit our site on the World Wide Web

www.whiteselectronics.com
for the latest information on products, services,
Local Dealers and treasure hunting news.

Part Number 621-0476

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To Assemble

1. Remove all parts from shipping carton (see diagram next page).

2. Use nonmetallic washers (between round search coil and clevis fiber rod), and fiber bolt and thumbnut to secure search coil to fiber rod.

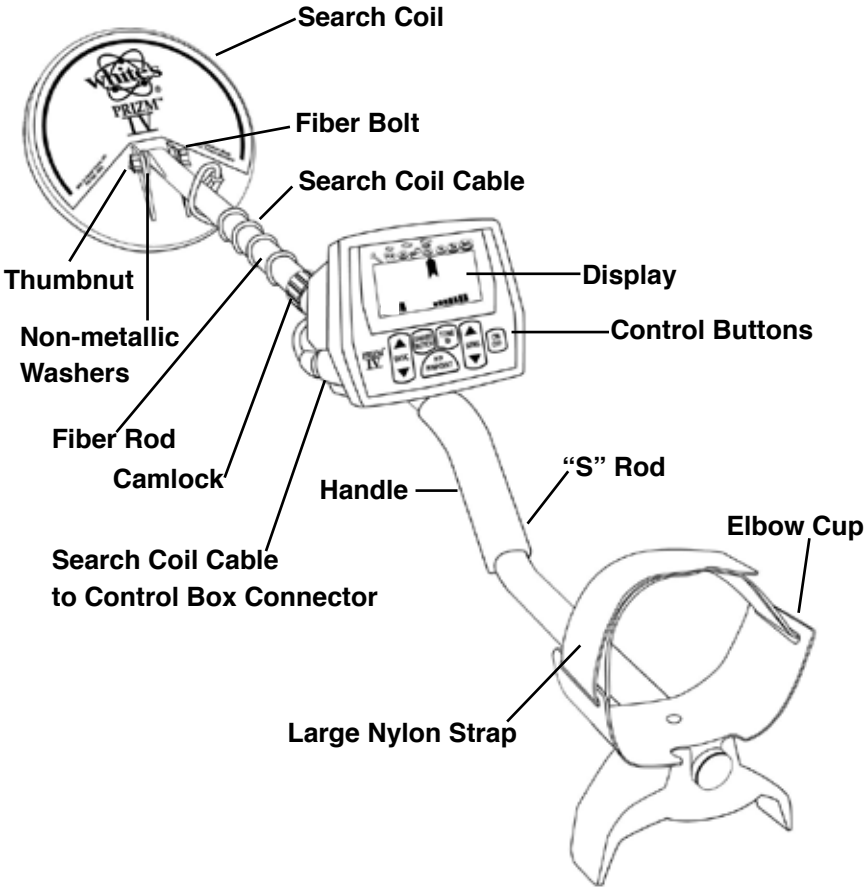
3. Unlock Camlock on "S" rod, insert fiber rod into curved rod, line up buttons into one of adjustment holes. Twist Camlock to LOCK.

4. Unravel search coil cable and wind around rods (first revolution over top of rod). Plug search coil cable connector into control box. Screw finger tight to secure. Secure cable to fiber rod near search coil (first revolution) with small hook and loop strap provided. Allow slight cable slack (prior to first revolution) to allow search coil tilting.

5. Grip by handle, with arm in elbow cup, and sweep search coil over floor. If necessary for comfort, unlock camlock, compress buttons and reposition fiber rod. If necessary, elbow cup is also adjustable for comfort.

6. A large nylon strap is provided. When woven through the slots in the arm cup, additional leverage is provided. Insert smoothest section first (left slot for right-handed individuals, right slot for left-handed individuals) hook and loop facing up. Fold tab at end of rougher loop into "T" to lock this end. Insert opposite end through second slot so arm can be inserted and removed from arm cup without readjustment of strap.

Assembly Diagram

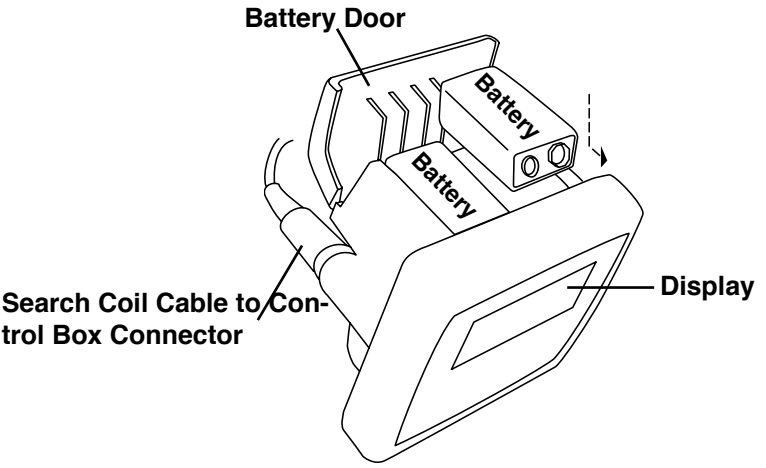


Batteries

1. Open battery door by pressing elongated button on back of display and flipping open door.

2. Install two 9-volt alkaline batteries taking note of (+) and (-) positions (only fit one way), close door.

3. Press ON/OFF button.



4. Batteries that are weak, or become weak during use, will automatically indicate Low Batt. with a battery icon on the left center portion of the display. Replace with two good quality alkaline 9-volt transistor batteries. Low volume beep, without a Low Bat display indication, requires only the one battery on the headphone jack side of the compartment be replaced.

5. One may expect about 20 hours of continuous searching with two good quality alkaline batteries. Battery life will vary with inter-

mittent use, temperature, control settings, target indications, battery quality, battery condition upon purchase, and shelf life. One may add or subtract as much as 50% depending upon the above variables. It is always wise to carry back up batteries when traveling far from home.

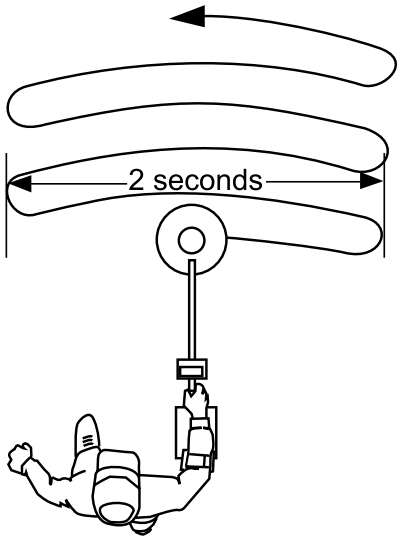
6. Good quality rechargeable transistor 9-volt batteries may be purchased separately for use in your Prizm. Typically rechargeable transistor 9-volts will fall short of 20 hour continuous search time by as much as 30%. Expensive types may exceed this alkaline life rating. Either way their rechargeable option is desirable for avid (everyday) searching. White's Electronics, Inc. has chosen not to compete in the transistor 9-volt rechargeable battery market. We would suggest common reputable brands and retailers for such systems.

Getting Started (Prizm™ II, III, IV, V)

1. Once assembled with good batteries installed, press ON/ OFF.

2. Due to the many metals used in modern construction it is best to use and practice outdoors.

3. Sweep the round search coil from side to side over ground evenly (near to or touching ground surface) keeping it very close to the ground throughout each pass and overlapping each pass as if mopping a floor. About two seconds per pass from left to right, and two seconds returning from right to left is necessary for the Prizm to perform as designed. Sweeping too slowly (significantly less than two seconds per pass) will deter good performance. It is also necessary for the round search coil to be moving (sweeping) for the Prizm to detect and identify metals. Once an interesting signal has been located, (Step #6) the P/P (pinpoint) button can be used to allow much slower search coil movement isolating exactly where to dig.



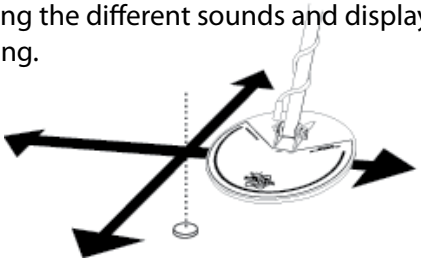
4. Solid repeatable beeps and repeatable display after several passes indicates an interesting metal target.

5. Broken, sputter, or inconsistent beeps and display, indicates

likely uninteresting metal targets. Ignore these targets.

6. Once a solid repeatable beep and display indication are located, press P/P button and "X" area to pinpoint exactly where to dig. Press P/P again to continue searching.

7. Sweeping the round search coil over the ground, recognizing solid repeatable beeps and display indications from broken or inconsistent ones, pinpointing, and digging all take practice. Be patient. To speed the learning curve bury a nail, coin, and other items an inch or two in the ground and practice locating, recognizing the different sounds and display indications, and pinpointing.



8. You must have permission to search both public and private property from the owners or person in charge of managing the property. In most cases, you can locate the owner through City Hall or the County Seat. It is important for the future of metal detecting that you take care in digging. Unsightly holes are dangerous to people and livestock as well as detrimental to continued use of detectors. Fill all holes and remove all trash you encounter. Some areas have restrictions on the size and type of digging tool you may use which may present additional challenges. Check with your Dealer, Area Detecting Club, Local Police, or Parks & Recreations Department.

9. Known and marked historical sites are certainly "Off Limits" to metal detector use. Educate yourself, follow the laws in your area, and always aid Law Enforcement and Archeologists to further promote this great hobby. With research and thought,

Prizm™ II Controls

1. ON/OFF turns the Power ON and OFF. Batteries that are weak, or become weak during use, will automatically indicate Low Batt. with a battery icon on the left center portion of the display. Replace with two good quality alkaline 9-volt transistor batteries. Remove batteries for storage beyond two weeks.

2. SENS (sensitivity) adjusts the responsiveness to metals, ground, and external electrical interference. The Sensitivity level is continuously shown on the display. The further to the right the fill towards taller bars, the higher the selected sensitivity setting. Use the SENS Up arrow button to increase, down arrow button to decrease. Use the highest level that behaves predictably. Use lower levels for areas the Prizm™ behaves unpredictably or is unstable (false signals without the presence of metal). Areas of high power electrical lines or extremely mineralized soil conditions will likely require lower SENS levels. Areas of little electrical activity, and dry beach sand, usually allow high SENS settings, and thus more detection depth. Standard settings work well in typical conditions.

3. P/P activates pinpoint mode for better item location. P/P can also be used for searching when iron and steel is desired as well as all other metals. Once P/P has been pressed (tapped) all types of metals respond with a beep that is basically the same. No adjustments can be made while in the P/P mode. Press a second time prior to continued searching to return the Prizm to Discrimination, which varies the beep according to the DISC setting. Holding the P/P button during pinpointing allows automatic return to Discrimination searching when released. P/P status shown on display center.

4. DISC (discrimination) selects the acceptance or rejection (regarding audio beep) of each category on the display from iron to z1 (zinc cent). The current settings are indicated continuously on the display as a speaker in a circle with a slash through it directly under each category selected as a rejection. For more jewelry, except for iron, accept as many categories as you can endure digging. Press DISC arrow up to increase the rejection categories and arrow down to decrease the rejection categories.

Prizm™ II Display

Prizm™ III Controls

In addition to the features of the Prizm™ II, the ***Prizm™ III*** has an additional feature -

1. The depth of coin-sized metals is automatically indicated on the lower left-hand portion of the display.

2. Metals larger or smaller than typical coin size will skew this indication slightly. For example, a pop can will indicate very shallow, however, may in fact be found quite deep in the ground. A metal much smaller than a coin will indicate quite deep, however, be found to be quite shallow in the ground. Whatever the finding regarding a particular size, the results will be consistent, repeated time and time again. If a metal indicates an inch and after digging three inches it is still not located, that item is larger than a typical coin. If pop cans are common to the area disregard.

3. Typically lighter metals like the aluminum pull tab will remain fairly shallow. A TAB indication that indicates fairly shallow is likely a TAB. However, gold is heavy (typically sinks more deeply into the ground) and may also indicate in the TAB area of the display. A TAB indication that indicates fairly deep should be dug, at least until determined that deep tabs are also common to the area. Older more collectable coins are found at greater depths in the ground. Deep indications that have questionable tone and display indications are more worthy of investigation compared to questionable tone and display indications that produce shallow depth indications.

4. Regardless of the metal detector used, when searching, you are going to dig some trash metals. Use the tone, display, and

depth reading, to hedge the odds against trash and for valued metal items.

5. The depth indicates from 8 inches at the right towards 0 inches to the left.

Prizm™ III Depth Display

Prizm™ IV

In addition to the features of the Prizm™ II and Prizm™ III the ***Prizm™ IV*** has additional features -

1. Tone I.D. (Tone Identification) is engaged when the Tone I.D. note is displayed. Press TONE I.D. to disable/enable. At minimum DISC, three different tones now indicate the display categories, "large" Iron "Low Tone", Foil & TAB "Medium Tone", ALL coins "High Tone". This Tone I.D. feature makes the operator immediately aware of the likely category of the metal item without looking at the display. Display categories selected for rejection with the DISC control either produce no beep at all or a broken inconsistent beep. In addition, a very low tone indicates metal overload when too close to a large metal object.

Prizm™ IV display with three tones indicated for three categories.

Prizm™ IV & V

2. Smart Notch. Press Smart Notch. With DISC control set at FOIL or below, pull tabs are eliminated. With DISC control at Nickels or above, Nickels are accepted. Smart Notch either eliminates TAB or accepts Nickels. A missing or added DISC symbol indicates Smart Notch is engaged.

The DISC categories are linear in that as DISC is increased first IRON is rejected, then FOIL, then 5 Cent, etc. from left to right based on these metals electrical properties.

However, one may wish to reject a category higher on the scale while accepting one lower on the scale. Prior to Prizm™, such a feature was only available on high-end metal detectors.

With the Prizm™ IV & V, the two most common needs for such rejection are available automatically with the Smart Notch feature.

Once Smart Notch is pressed, the Prizm™ IV automatically selects the notch appropriate for the current DISC setting. If DISC is increased to Nickels or above, the Nickel category is accepted even if the DISC is set high enough to reject the TAB category. At lower DISC setting, Foil or below, the TAB category is rejected even though the DISC setting isn't set high enough to reject TABS. Increasing or decreasing the DISC control automatically switches between these two different Smart Notch options.

Prizm™ V

In addition to the features of the Prizm™ II, Prizm™ III, and Prizm IV, the ***Prizm™ V*** has additional features -

1. Multi Tone (Tone Identification) is engaged when the musical note is displayed. Tap Multi Tone to disable / enable. At minimum DISC, eight different tones now indicate the display categories, from iron, at the lowest tone, to 50 cents at the highest tone. This Multi Tone feature makes the operator immediately aware of the likely category of the metal item without looking at the display. Display categories selected for rejection with the DISC control either produce no beep at all or a broken inconsistent beep. In addition, a very low tone indicates metal overload when too close to a very large metal object.

Prizm™ V display with eight tones indicated for eight categories.

Prizm™ U

2. Press and hold Multi Tone a few seconds (instead of tapping) to enable three tone Tone ID (like Prizm IV). An operator may wish to limit the tone range to three tones, good targets at the higher tone, questionable foil range targets at the medium tone, and iron at the lowest tone.

3. VCO (Voltage Controlled Oscillator) Pinpointing. VCO produces a progressively higher pitched tone as the target signal becomes progressively stronger during pinpointing.

Press Pinpoint to activate the pinpoint mode. Then press TONE ID to enable or disable VCO pinpointing.

VCO is a feature that only operates in the Pinpoint mode. When ON, the stronger the target response, the higher the pitch of the sound.

VCO is an excellent aid to pinpointing. Slowly "X" the loop over the suspected target area. The highest pitch sound indicates the center of the target.

At the point of the highest pitch sound, the target depth feature indicates its most accurate depth.

Smart Notch Display

The Prizm™ Display, and information above the Display, provide a wealth of information about the metal target.

Displays

1. Eight distinct target categories are listed across the top of the display and indicate the most common metals found within these categories. It is important to understand the display information should only be consulted after a solid repeatable audio tone "beep" has been located.

2. A specific metals category is dictated by that metals exact content, size, and shape. The reference label above the display provides a comparison of known metals. Identical metal items indicate identical display categories. Similar metal items produce similar display categories. And different metal items produce different display categories. Different types of metal may, however, share the same category based on their electrical characteristics (size, shape, exact content). For example, small aluminum foil and small gold jewelry may indicate in the same category. The display simply tells you the most common items for that specific category. One must use this information as a guide. Consistency is the key. For example, if three or more bullets are dug at the same display indication, one can assume these bullets are common to that specific area and further identical indications are highly likely to be additional bullets of the same size/type within that specific area being searched. If those particular bullets are not of interest, one may choose to ignore (not dig) any further identical indications within that area.

3. Low battery condition is automatically listed on the display in the form of a battery icon. Low battery indicates you need to replace the batteries. One may expect about 20 hours of continuous searching with two good quality alkaline batteries. Battery life will vary with intermittent use, temperature, control settings, target indications, battery quality, battery condi-

tion upon purchase, and shelf life. One may add or subtract as much as 50% depending upon the above variables. It is always wise to carry back up batteries when traveling far from home.

4. Control status is also shown on the display. P/P All Metal on is indicated in the center of the display. Sensitivity setting on the lower right. Discrimination settings on the upper portion under each display category. Prizm™ III and IV shows depth indication on the lower left. Prizm™ IV also indicates the status of the Smart Notch and Tone I.D. features.

5. Metal overload is indicated in all modes by a very low pitch tone. Lift the search coil and resweep target since target errors can occur when target is too strong.

Accessories

Accessories available for your Prizm™ will enhance convenience and your searching experience.

1. Digging Tool -

You can use a garden trowel, however, detector-specific digging tools and aprons for storing finds, developed over the last 60 years, are more durable, effective, easier on the environment, and on your person. Sand scoops are recommended for sand as digging is difficult in these conditions.

2. Headphones

Headphones with a 90 degree plug in jack, and volume controls are highly recommended for use with your Prizm™. Headphones increase battery life, your ability to hear the metal detector signals, privacy, and avoid unnecessary attention. The Prizm™doesn't have a volume control, this is more noted when headphones are used. Headphone volume controls allow tuning to your hearing needs.

3. Search Coil Covers

The bottom of the search coil is subject to wear, more noted in sandy or rocky conditions. A search coil cover snaps onto the bottom of the search coil and prevents wearing out the bottom of the search coil.

4. Carry Case

Damage during storage and travel may well exceed damage during searching. Convenient storage/ carry bags allow all the related equipment to be kept together for use at a moments notice and protect the detector from incidental damage.

5. Books and Videos

A photo is worth a thousand words. Books and videos can speed the learning curve immensely. Draw from the years of experience of those who have went before you.

6. Search Coil Steady Bracket

Water or high grass sometimes make it difficult to maintain the correct search coil to rod angle. The search coil steady bracket adjusts and locks this position.

7. Bullseye® Pinpointer

Speeds target recovery and ease by pinpointing within a fraction of an inch the target within the hole, dirt, sand or gravel.

Repair Service

White's reputation has been built on quality products backed by quality service. Our factory Authorized Service Centers are factory trained and equipped. They offer the same quality service as the factory. Service before and after the sale is the cornerstone of our customer relations.

Before shipping detectors for service –

A. Contact your Dealer. There may be a quick, simple fix or explanation that will prevent having to send the detector in for service.

B. Double check the obvious, such as batteries, and try the detector in another area to be sure there is not outside electrical interference.

C. Be sure to send all necessary parts with your detector, such as search coils and batteries as these items can result in symptoms.

D. Always include a letter of explanation about your concern, even if you have talked to the Service Center by telephone.

E. Take care in packaging your detector for shipping. Always insure your package, and always keep a receipt of shipping.

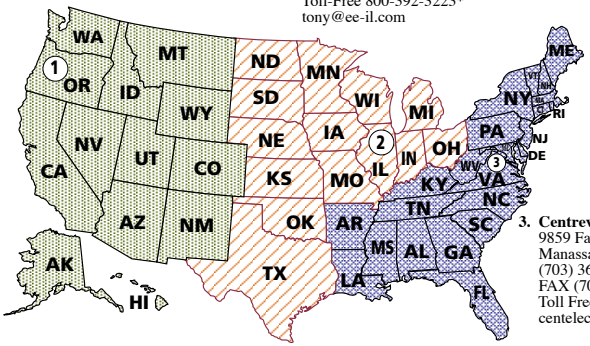
F. Clearly state in your explanation with the detector how you would like any incidental or consequential costs to be handled such as return shipping, accessories, overnight shipping, service outside of the two year warranty, etc.

Authorized Service Centers

In the unlikely event your detector requires service please note our following Authorized Service Centers;

1. **White's Electronics**
1011 Pleasant Valley Rd.
Sweet Home, OR 97386
(541) 367-6121
FAX (541) 367-6629
nbaker@whiteselectronics.com

2. **Electronic Exploration**
575 West Harrison
Lombard, IL 60148
(630) 620-0618
FAX (630) 620-1005
Toll-Free 800-392-3223*
tony@ee-il.com



3. **Centreville Electronics**
9859 Fairview Avenue
Manassas, VA 20110
(703) 367-7999
FAX (703) 367-0868
Toll Free 888-645-0202
centelec@vwx.com

USA, All Of Americas, Pacific Rim

Centerville Electronics 9859 Fairview Ave. Manassas, VA 20110
Toll Free: 888-645-0202, Or Toll: 703-367-7999
Fax: 703-367-0868 E-Mail: centelec@vwx.com

Electronic Exploration 575 West Harrison Lombard, IL 60148
Toll Free: 800-392-3223, Or Toll: 630-620-0618
Fax: 630-620-1005 E-Mail: tony@ee-il.com

White's Electronics, Inc. 1011 Pleasant Valley Road
Sweet Home, OR 97386
Toll: 541-367-6121 Extension 128
E-Mail: nbaker@whiteselectronics.com
Web Site: www.whiteselectronics.com

UK, Europe, Northern Asia, Africa, Near East, Mid East

White's UK Ltd. 35J Harbour Road
Inverness, Scotland IV1 1UA
Telephone: (011)441-463-223-456
Fax: 441-463-224-048
E-Mail: sales@whelects.demon.co.uk
Web Site: www.whites.co.uk

Australia, New Zealand, Far East, Southern Pacific Rim

Finders PTY. LTD 90 Broadway Dunolly, Victoria 3472
Telephone: (61) 03-5468-1333
Fax: (61) 03-5468-1130
E-mail: finders@finders.com.au
Web Site: www.finders.com.au

Warranty

If within two years (24 months) from the original date of purchase, your White's detector fails due to defects in either material or workmanship, White's will repair or replace at its option, all necessary parts without charge for parts or labor.

Simply return the complete detector to the Dealer where you purchased it, or to your nearest Authorized Service Center. The unit must be accompanied by a detailed explanation of the symptoms of the failure. You must provide proof of date-of-purchase before the unit is serviced.

This is a transferable manufacturer warranty, which covers the instrument two years from the original purchase date, regardless of the owner.

Items excluded from the warranty are batteries, accessories that are not standard equipment, shipping/handling costs outside the continental USA, Special Delivery costs (Air Freight, Next Day, 2nd Day, Packaging Services, etc.) and all shipping/handling costs inside the continental USA 90 days after purchase.

White's registers your purchase only if the Sales Registration Card is filled out and returned to the factory address by your dealer soon after original purchase. The purpose of recording this information is to keep you up-to-date regarding White's ongoing research & development.

The warranty does not cover damage caused by accident, mis-

use, neglect, alterations, modifications, unauthorized service, or prolonged exposure to corrosive compounds, including salt.

Duration of any implied warranty (e.g., merchantability and fitness for a particular purpose) shall not be longer than the stated warranty. Neither the manufacturer or the retailer shall be liable for any incidental or consequential damages. Some states however, do not allow the limitation on the length of implied warranties, or the exclusion of incidental or consequential damages. Therefore, the above limitations may not apply to you.

In addition, the stated warranty gives you specific legal rights, and you may have other rights which vary from state to state.

The foregoing is the only warranty provided by White's as the manufacturer of your metal detector. Any "extended warranty" period beyond two years, which may be provided by a Dealer or other third party on your detector, may be without White's authority, involvement and consent, and might not be honored by White's Electronics, Inc.

Warranty Transfer

If for any reason you should sell your Prizm™ prior to the date the warranty expires, the remaining warranty is transferable. This transfer is authorized by calling 1-800-547-6911, and getting an Authorization Number.

Simply fill out the following information, including the Authorization Number, seal it in a stamped envelope, and send it to White's Electronics, 1011 Pleasant Valley Road, Sweet Home, Oregon 97386. The remaining warranty period will then be available to the new owner.

The Warranty Statement applies to both the original owner as well as any secondary owners.

WARRANTY TRANSFER

Original Owner:

Name: _____

Address (Which appears on the original warranty card):

_____

_____

Instrument Serial Number: _____

Original Purchase Date:_____

New Owner:

Name: _____

Address: _____

_____

_____

Comments: _____

_____

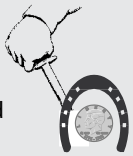
Distributor Authorization Code: _____

Target Re···→cov···→ery

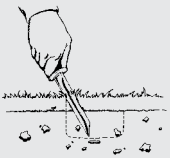
The following "Hinged Door Method" of digging is widely recommended to minimize damage to lawns. Careful recovery in multiple-use well-groomed areas is the responsibility of all metal-detector users.

#1. After locating a good target (metal), pinpoint the center. If your instrument has depth reading, take note of the depth. Practice on surface metals with the loop held several inches

#2. Using a sturdy digging tool, preferably a trowel or knife, cut a horseshoe-shaped size plug around the pinpointed target. Leave an uncut hinge area to keep the grass in place.



#3. Cut through the turf, being careful to cut around the target and not damage it.

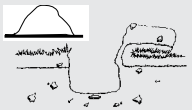


#4. Use your digging tool to pry the turf flap up and hinge it over. Your pinpointed target rests now down side up.

#5. Check for the target visually, and with your detector, to see if the target is in the flap or remains in the hole.

#6. A pinpointing probe can be used to speed the process of finding the target in the flap or in the hole.

#7. If additional dirt needs to be removed from the hole,place it on a drop cloth.



#8. After recovering the target, the dirt can then easily be replaced with a minimum of spreading.

#9. Replace the turf flap and step on it firmly. Once completed very little indication of digging should be seen.

It is very important for the future of metal de···→tect···→ing that you use care in digging – – –

- Check with your Dealer, Area Club, Local Police, or Parks & Recreations Dept.
- Some areas may have rules on the size and type of digging tools allowed.
- Be aware of the rules, and respect the laws and restrictions in your area.
- Unsightly holes are dangerous to people and livestock, and detrimental to the continued use of detectors.

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